WE CLAIM:

- 1. A peptide comprising an amino acid sequence with more than 80% homology with the amino acid sequence listed as SEQ ID NO:4.
 - 2. A peptide according to claim 1, having the amino acid sequence of SEQ ID NO:4.
- 3. A peptide according to claim 1, having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEQ ID NO:5.
 - 4. A peptide according to claim 3 having the amino acid sequence of SEQ ID NO:5.
- 5. A peptide according to claim 1, having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEQ ID NO:6.
 - 6. A peptide according to claim 5, having the amino acid sequence of SEQ ID NO:6
- 7. A peptide according to claim 3, having CC chemokine receptor activity or receptor activity for at least the HIV-1 and/or HIV-2 viruses or an active portion of said HIV viruses.
- 8. A peptide according to claim 7, which is activated at least by the MIP- 1β chemokine at a concentration less than or equal to 10 Nm, or by the MIP- 1α or by RANTES chemokines but not activated by the MCP-1, MCP-2, MCP-3, IL-8 or GRO α chemokines.
- 9. A peptide according to claim 5, having no CC chemokine receptor or no receptor activity for HIV-1 and/or HIV-2 viruses or an active portion of said HIV viruses.

- 10. A nucleic acid molecule having more than 80% homology with one of the nucleic acid sequences listed as SEQ ID NO:1, SEQ ID NO:2 and SEQ ID NO:3.
- 11. A nucleic acid molecule according to claim 10, which has at least a nucleic acid sequence listed as SEQ ID NO:1, SEQ ID NO:2 or SEQ ID NO:3.
 - 12. A vector comprising the nucleic acid molecule according to claim 10.
 - 13. A cell comprising the vector according to claim 12.
 - 14. A cell according to claim 13, being the cell CHO-K1-PEFIN HCCR5-1/16.
- 15. A nucleic acid probe comprising a nucleic acid molecule of at least 15 nucleotides capable of specifically hybridizing with an unique sequence included within the nucleic acid molecule according to claim 10.
- 16. An antisense oligonucleotide having a sequence capable of specifically hybridizing to a nucleic acid molecule of claim 10 to prevent translation of said nucleic acid molecule.
- 17. A ligand capable of binding to the peptide according to claim 3 with the proviso that said ligand is not selected from the group consisting of the MIP- 1β , MIP- 1α and RANTES CC-chemokines, HIV viruses and an active portion of said HIV viruses.
- 18. An anti-ligand capable of competitively inhibiting the binding of a ligand selected from the group consisting of the MIP- 1β , MIP- 1α and RANTES CC-chemokines, HIV viruses and an active portion of said HIV viruses to a peptide having at least an amino acid sequence

having more than 80% homology with the amino acid sequence listed as SEQ ID NO:4 or SEQ ID NO:5 or SEQ ID NO:6.

- 19. Cell line AchCCR5-SAB1A7.
- 20. A pharmaceutical composition comprising the antisense oligonucleotide according to claim 16 in an amount effective to decrease activity of a peptide having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEQ ID NO:6 by passing through a cell membrane and binding specifically with MRNA encoding said peptide in the cell so as to prevent its translation, and a pharmaceutically acceptable carrier capable of passing through a cell membrane.
- 21. A pharmaceutical composition which comprises the anti-ligand according to claim 18 in an amount effective to block binding of a ligand to a peptide having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEQ ID NO:4, and a pharmaceutically acceptable carrier.
- 22. A method for determining whether a ligand can specifically bind to a peptide according to claim 3; which comprises the steps of:

transfecting a cell with a vector expressing the nucleic acid molecule encoding said peptide with the ligand under conditions permitting binding of said ligand to said peptide; and

detecting the presence of any ligand bound specifically to said peptide, thereby determining whether the ligand binds specifically to said peptide.

23. A diagnostic and/or dosage device comprising:

a peptide having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6,

a nucleic acid molecule having at least a nucleotide sequence having more than 80% homology with the nucleotide sequence listed as SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3,

a ligand capable of binding to a peptide having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEQ ID NO:5, with the proviso that said ligand is not selected from the group consisting of the MIP-1β, MIP-lα and RANTES CC-chemokines, HIV viruses and an active portion of said HIV viruses, and

an anti-ligand capable of competitively inhibiting the binding of a ligand selected from the group consisting of the MIP-1β, MIP-1α and RANTES CC-chemokines, HIV viruses and an active portion of said HIV viruses to a peptide having at least an amino acid sequence having more than 80% homology with the amino acid sequence listed as SEO ID NO:4 or SEQ ID NO:5 or SEQ ID NO:6.

24. A diagnostic and/or dosage device according to claim 23, which further comprises reactants for the detection and/or dosage of antigens, antibodies or nucleic acid sequences through a method selected from the group consisting of in situ hybridization, hybridization or recognition by marked specific antibodies, methods on filter, on a solid support, in solution, in

sandwich on gel, by Dot blot hybridization, by Northern blot hybridization, by Southern blot hybridization, by isotopic or non-isotopic labeling, by a technique of cold probes, by genetic amplification, particularly PCR, LCR, NASBA or CPR, by a double immunodiffusion, by a counter-immunoelectrophoresis, by haemagglutination and a combination of the forgoing.

- 25. A method of treatment of a disease selected from the group consisting of inflammatory diseases, including rheumatoid arthritis, glomerulonephritis, asthma, idiopathic pulmonary fibrosis and psoriasis, viral infections including infections by Human Immunodeficiency Viruses 1 and 2 (HIV-1 and 2), cancer including leukaemia, atherosclerosis and auto-immune disorders, comprising administering to a patient having said disease a pharmaceutical composition according to claim 20 in an amount effective to decrease activity of a peptide associated with said disease.
- 26. A method for determining whether a ligand can specifically bind to a peptide according to Claim 3, which comprises the steps of:

preparing a cell extract from cells transfected with a vector expressing the nucleic acid molecule encoding said peptide;

isolating a membrane fraction from the cell extract;

contacting the ligand with the membrane fraction under conditions permitting binding of the ligand to said peptide and optionally under conditions permitting the activation of a functional peptide response; and

detecting by means of a bio-assay an increase in the peptide activity, thereby determining whether the compound is capable of specifically binding to said peptide.

27. A method of treatment of a disease selected from the group consisting of inflammatory diseases, including rheumatoid arthritis, glomerulonephritis, asthma, idiopathic pulmonary fibrosis and psoriasis, viral infections including infections by Human Immunodeficiency Viruses 1 and 2 (HIV- 1 and 2), cancer including leukaemia, atherosclerosis, and auto-immune disorders, comprising administrating to a patient having said disease a pharmaceutical composition according to Claim 21 in an amount effective to block binding of a ligand to a peptide associated with said disease.